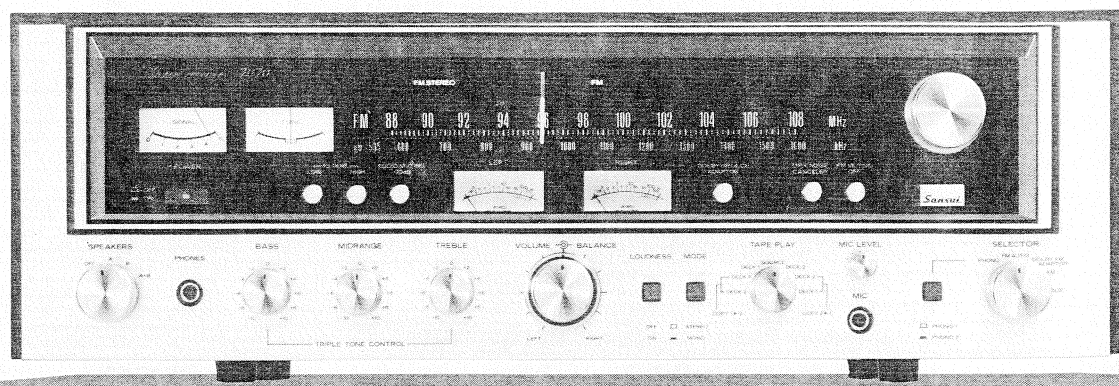
SERVICE MANUAL

AM/FM STEREO RECEIVER

SANSUI 7070



Sansui

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This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the 7070 correctly.
When ordering the parts, use the stock number and parts name specifically referring to the Parts Location and Parts Lists.
For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

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1. SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT
Min. RMS, both channels driven, from 20 to 20,000Hz, with no more than 0.3% total harmonic distortion
60 watts per channel into 8 ohms
60 watts per channel into 4 ohms
Min. RMS, both channels driven, at 1,000Hz, with no more than 0.3% total harmonic distortion
65 watts per channel into 8 ohms
65 watts per channel into 4 ohms

LOAD IMPEDANCE .....4, 8 ohms (SYSTEM-A or B)
8 ohms (SYSTEM A+B)
POWER BANDWIDTH .....20 to 20,000Hz at or below rated min. RMS power output and total harmonic distortion
TOTAL HARMONIC DISTORTION
.....less than 0.3% at or below rated min. RMS power output
INTERMODULATION DISTORTION
(70Hz : 7kHz=4 : 1 SMPTE method)
.....less than 0.3%
FREQUENCY RESPONSE (at 1 watt)
.....20 to 30,000Hz ±1dB
RIAA CURVE DEVIATION (PHONO)
.....+0.5dB, −0.5dB
(30Hz to 15 kHz)
DAMPING FACTOR .....approximately 45 at 8-ohm load
INPUT SENSITIVITY AND IMPEDANCE
(1kHz, for rated power output)
PHONO-1, 2 .....2.5 mV/50 kilo ohms
(Max. input capability: 160 mV at 1kHz, less than 0.5% total harmonic distortion.)
MIC .....2.5 mV/50 kiloohms
TAPE PLAY, AUX .....150 mV/50 kiloohms
OUTPUT LEVEL (1,000Hz)
TAPE-1, 2 REC (pin jacks)..150 mV
TAPE-2 REC/PLAY (DIN socket)
.....30 mV
CHANNEL SEPARATION (at rated output 1,000Hz)
PHONO-1, 2 .....better than 50dB
TAPE PLAY, AUX .....better than 50dB
HUM AND NOISE
PHONO-1, 2 .....better than 70dB
TAPE PLAY, AUX .....better than 80dB
CONTROLS
BASS .....±10dB (50Hz)
MIDRANGE .....±5dB (1.5kHz)
TREBLE .....±10dB (10kHz)
LOUDNESS .....+8dB (50Hz)
+6dB (10kHz)
LOW FILTER .....−10dB (50Hz)
HIGH FILTER .....−10dB (10kHz)
AUDIO MUTING .....−20dB

FM SECTION

TUNING RANGE.....88 to 108MHz
SENSITIVITY (IHF) 10.3dBf (1.8μV)
(DIN) 1.0μV
50dB QUIETING SENSITIVITY
STEREO (IHF) 38dBf (45μV)
MONO (IHF) 15.6dBf (3.3μV)
TOTAL HARMONIC DISTORTION
STEREO.....less than 0.4%
MONO.....less than 0.3%
SIGNAL TO NOISE RATIO (mono)
.....better than 70dB
SELECTIVITY .....better than 80dB
CAPTURE RATIO .....less than 1.5dB
IMAGE RESPONSE RATIO (IHF)
.....better than 75dB (98MHz)
IF RESPONSE RATIO (IHF) ..better than 95dB (98MHz)
SPURIOUS RESPONSE RATIO (IHF)
.....better than 90dB (98MHz)
SPURIOUS RADIATION ....less than 34dB
STEREO SEPARATION .....better than 40dB (1kHz)
FREQUENCY RESPONSE ....30 to 15,000Hz $^{+0.5}_{-2.0}$dB
ANTENNA INPUT IMPEDANCE
.....75Ω unbalanced
300Ω balanced

AM SECTION

TUNING RANGE.....535 to 1,605kHz
SENSITIVITY (Bar antenna) ..50dB/m (1,000kHz)
SELECTIVITY .....better than 35dB (1,000Hz)
IMAGE RESPONSE RATIO (IHF)
.....better than 35dB (1,000Hz)
IF RESPONSE RATIO (IHF) ..better than 30dB (1,000Hz)

OTHERS

POWER REQUIREMENTS
POWER VOLTAGE.....100, 120, 220, 240V 50/60Hz
POWER CONSUMPTION..160 watts (rated)
400 watts, 460VA (max.)
DIMENSIONS .....502 mm (19-13/16") W
156 mm (6-3/16") H
371 mm (14-5/8") D
WEIGHT .....16.6 kg (36.6 lbs) net
18.8 kg (41.4 lbs) packed

* Design and specifications subject to change without notice for improvements.

2. ADJUSTMENTS

2-1. Driver Circuit Board Adjustments (See Fig. 2-1 & 2-2 on page 3)

Note: 1. Master Volume.....Minimum
2. Before adjustment, run the unit for more than 4 minutes, then check and readjust necessary.

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	DC 0V L-CH	DC volt Meter	Speaker Terminal L-CH	VR01 F-2624	0V ±10mV	◦ Step down meter range accordingly. ◦ Change leads polarity if meter swings backward.
2.	DC 0V R-CH	Same as above	Speaker Terminal R-CH	VR02 F-2624	Same as above	Same as above
3.	Bias Current L-CH	DC Milliammeter	F05, 07 Terminal on F-2625	VR03 F-2624	30mA ±1mA	◦ Step down meter range accordingly
4.	Bias Current R-CH	Same as above	F05, 06 Terminal on F-2625	VR04 F-2624	Same as above	◦ Same as above

Fig. 2-1

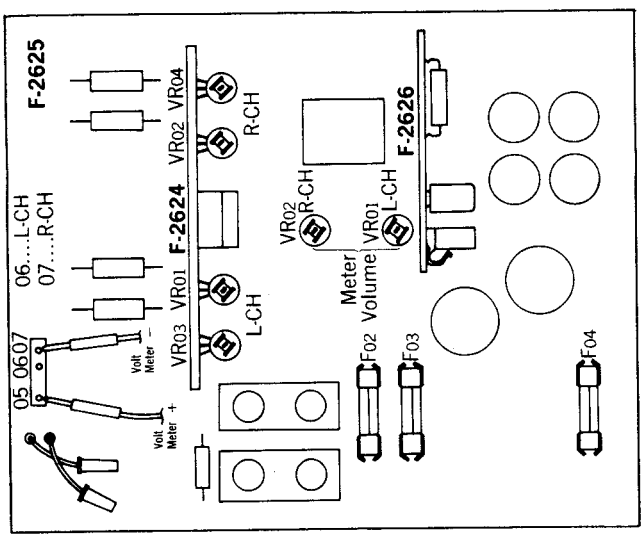
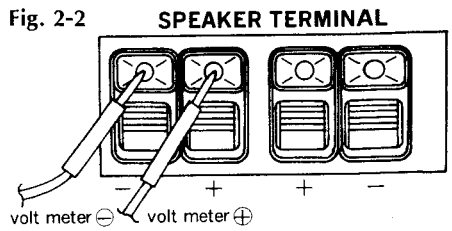


Fig. 2-2



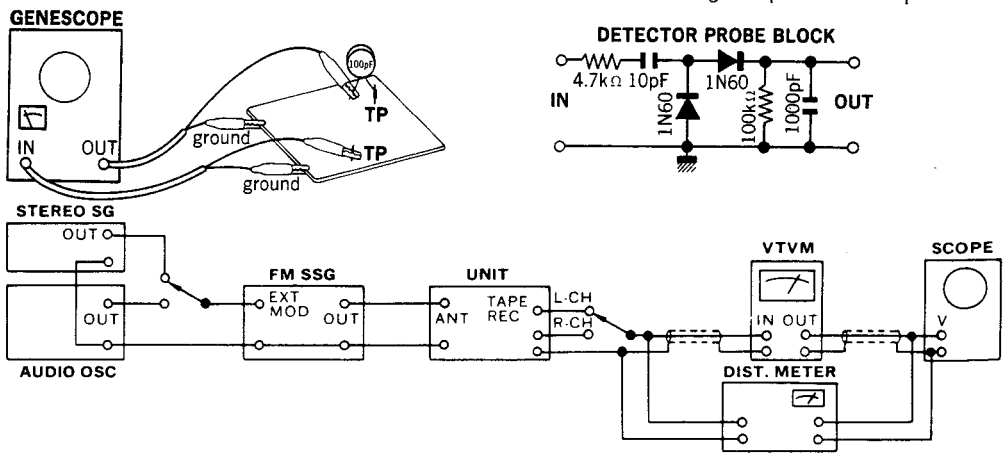
2-2. Power Meter Adjustment (See Fig. 2-1 & 2-3 on page 3)

Note: 1. Input.....AUX
2. Input Signal.....Sine Wave (1kHz)
3. Speaker load.....8Ω
4. Master Volume .....Maximum
5. Turn VR01 and VR02 on F-2564 fully counterclockwise.
6. For adjustment, run the unit for more than 4 minutes after the power is switched ON.

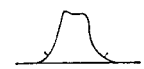
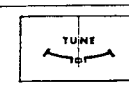
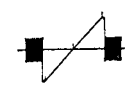
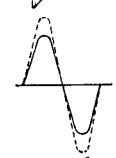
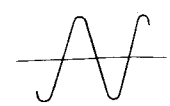
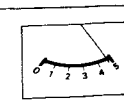
STEP	EQUIPMENT	MEASURE OUTPUT	OUTPUT LEVEL	ADJUST	ADJUST FOR
L-CH	AC Volt Meter	Speaker Terminal L-CH	20V (50W)	VR01 F-2625	Meter Position 50W Fig. 2-3
R-CH	Same as above	Speaker Terminal R-CH	Same as above	VR02 F-2625	

2-3. FM & MPX Adjustment (See Fig. 2-4 on page 5)

Note: 1. Selector.....FM AUTO
2. FM Muting Switch .....OFF
3. Connection.....Connect the output of genescope to through 100pF ceramic capacitor.



1) FM IF Adjustment & Tracking

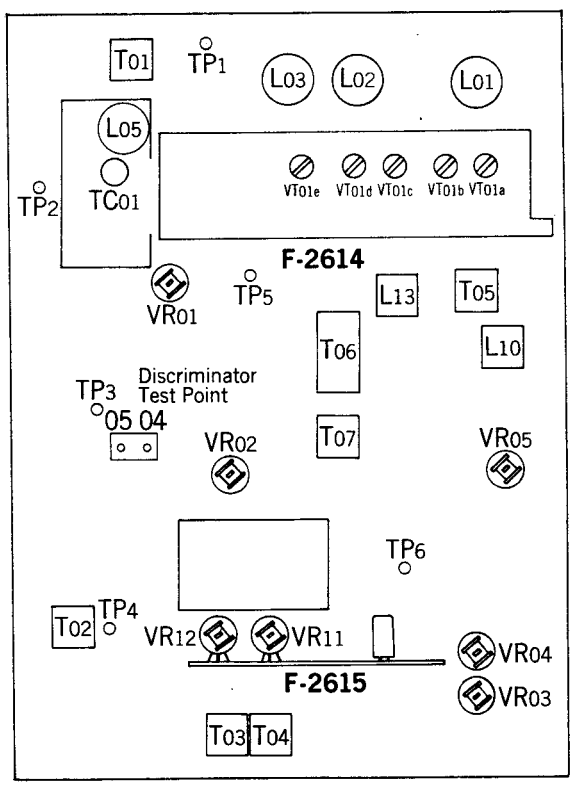
STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	IF Coil	Output 100dB Genescope	TP01 F-2614	TP03 F-2614 Use Detector Probe	T01 F-2614	Max. IF waveform	
		Output 90dB Genescope	Same as above	TP04 F-2614 Use Detector Probe	T02 F-2614		
2.	Discriminator Coil	Output 50dB Genescope	Same as above	TM04 F-2614	T03	Center indication on tune meter	
					T03	Max. linearity of S curve	
					T04	Steep linearity of S curve	
					F-2614	Set output wave to dip point (It's minimum distortion)	
3.	90MHz Dial Calibration	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-CH VTVM & Scope	L05 F-2614	Max. Output	
	106MHz Dial Calibration	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC01 F-2614	Same as above	
4.	90MHz RF Adj.	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02, L03 F-2614	Same as above	
	106MHz RF Adj.	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	VR01a VR01c VR01e F-2614	Same as above	
5.	Signal Meter Volume	98MHz ANT Input 100dB 400Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR11 F-2615	4.7 on Meter	

2) MPX Adjustment

STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	PLL VCO Adj.	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	ANT terminal 300Ω	Stereo indicator	VR01 F-2614	Light indicator	Adjust the VR within center of lighting level.
	PLL VCO Adj. In case of using Freq. counter.		Make short between TP04 & chassis	TP05 F-2614 Use Freq. counter	VR05 F-2614	76kHz ±200Hz	For this adjustment, run the unit over 30 seconds.
2.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH (0% MOD) R-CH 1kHz (45% MOD) STEREO SG	ANT terminal 300Ω	REC OUT L-CH VTVM& Scope	VR02 F-2614	Min. Output −35dB	Confirm separation L-CH→R-CH −35dB
3.	Muting level & indicator level	98MHz ANT Input 18dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	Same as above	Stereo indicator	VR12 F-2614	Muting level 18dB Indicator lighting level 18dB	

◇Adjusting or Connecting Points on AM, FM & FM MPX circuit board, F-2614 & F-2615

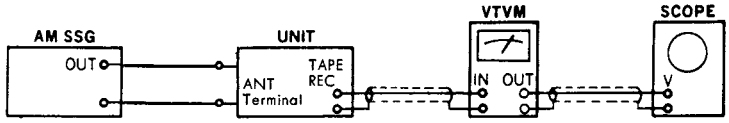
Fig. 2-4

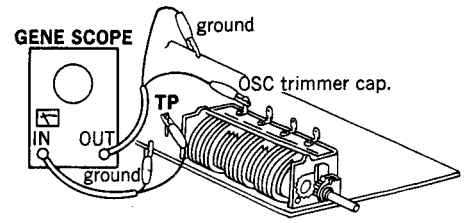


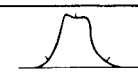
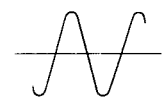
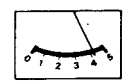
2-4. AM IF Adjustment & Tracking (See Fig. 2-4 on page 5)

Note: Selector.....AM

2. Confirm start point of dial pointer before alignment.





STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	IF Coil	Genescope Output 65dB	VT01b F-2614	TP06 F-2614	T06 F-2614	Max. IF waveform	
2.	600kHz Dial Calibration	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	AM ANT terminal	REC OUT L or R-CH VTVM & Scope	L-13 F-2614	Max. Output	
	1400kHz Dial Calibration	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 F-2590	Same as above	
3.	600kHz RF Adj.	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	L702 Bar Antenna	Same as above	
	1400kHz RF Adj.	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	VT01b F-2614	Same as above	
4.	Signal Meter volume	1000kHz ANT Input 76dB 400Hz (MOD 30%) AM SSG	Same as adove	Signal Meter	VR05 F-2614	4.3 on meter	

Abbreviations

Epuipment

AM FM Generator Oscilloscope.....Genescope
AM Standard Signal Generator .....AM SSG
FM Standard Signal Generator .....FM SSG
FM Stereo Generator.....Stereo SG
Oscilloscope .....Scope
Audio Oscillator .....Audio Osc.
Distortion Meter .....Dist. Meter

Others

Clockwise .....CW.
Counterclockwise.....CCW.
Antenna .....ANT.
Modulation.....MOD.

3. THREADING OF DIAL CORD

*If a dial cord is cut off or slips, replace it by following procedures.
As this unit use 0.6mmϕ cord, please replace it with the same type certainly.
*The length of dial cord is approximately 160cm (65.3 inch)

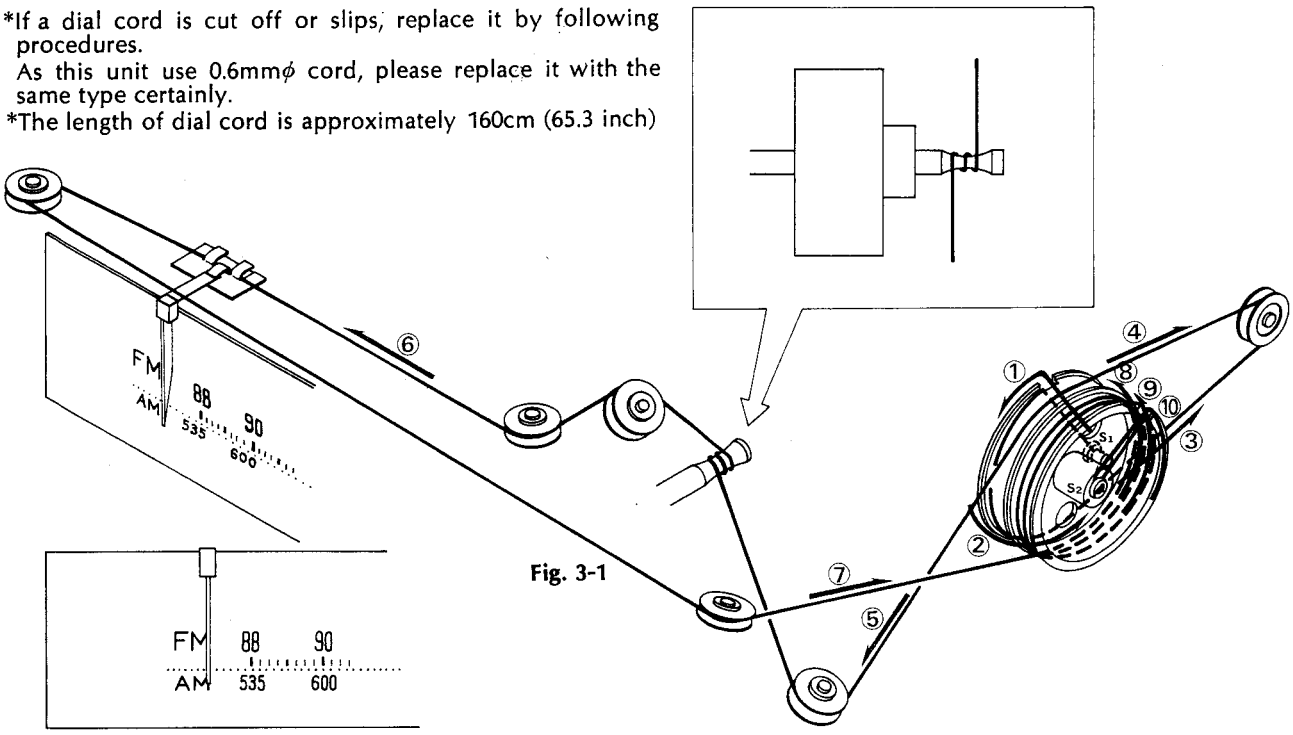


Fig. 3-1

Fig. 3-2

3-1. Threading of Dial Cord

Thread the dial cord in numerical order from ① to ⑩ as Fig. 3-1.

1) Close the variable capacitor completely (Max. capacitance).
2) Tie dial cord to the screw, S1 of the dial pulley.
3) Thread cord in the direction of arrow from ① to ⑩.
4) After ⑩, tie the cord to the screw S2 of the dial pulley.

3-2. Attachment of Dial Pointer

1) Close the variable capacitor completely.
2) Set the dial pointer to the position on dial scale as shown in Fig. 3-2.

*Confirm that the dial pointer runs smoothly on the dial scale by turning the tuning shaft.

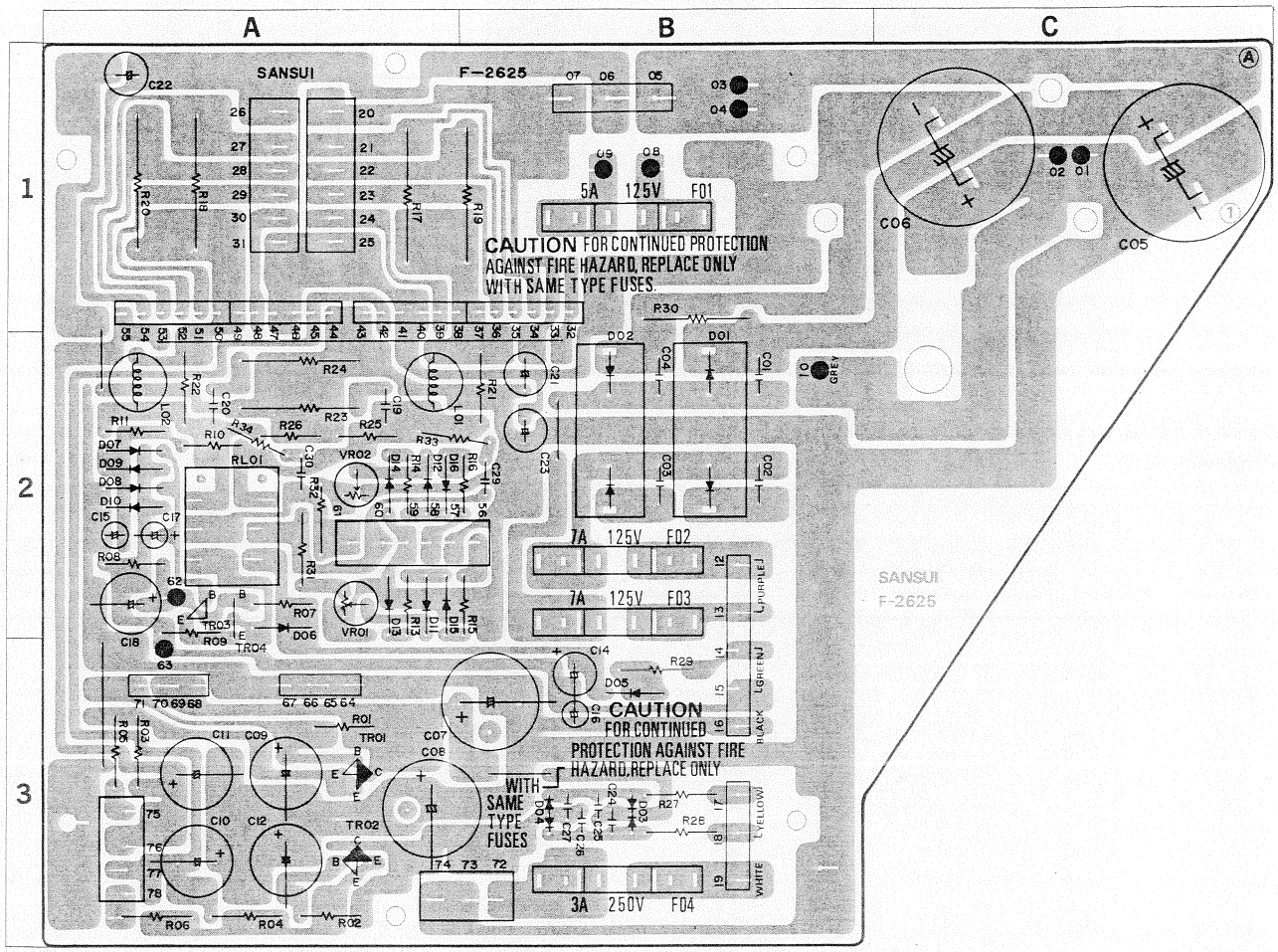
Stock No.	Description
6036051	Dial Cord (0.6mmϕ)
6146670	D44 Type Pulley

4. PARTS LOCATION & PARTS LIST

* Value and Stock No. of most Resistors and Capacitors are shown in Common Parts List attached.

4-1. F-2625 Power Supply Circuit Board (Mother Board) (Stock No. 7501691)

Conductor Side



Parts List

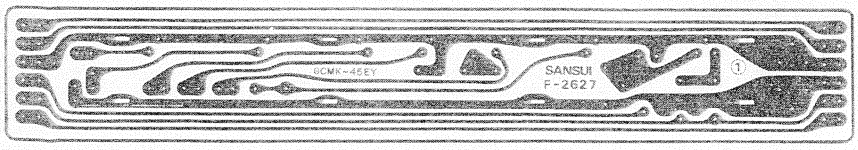
Parts No.	Stock No.	Description		Position
TR01	0308520, 1	2SD438 (D, E)	Transistor	3 A
TR02	0303360, 1	2SE560 (D, E)		3 A
TR03	0305951,2,3	2SC945 (Q, P, K)		2 A
TR04	0305953	2SC945 (K)		2 A
D01	0311310	SS-5	Diode	2 B
D02	0311320	SS-5R		2 B
D03	0310800	10DC2		3 B
D04	0310801	10DC2R		3 B
D05	0310340	10D1 (1S2226)		3 B
D06	0310340	10D1 (1S2226)		2 A
D07, 08	0310330, 1	1N60		2 A
D09, 10	0310330, 1	1N60		2 A
D11, 12	0310330, 1	1N60		2 A

Parts No.	Stock No.	Description		Position
D13, 14	0311160	1S2473D	Diode	2 A
	0311180	1S1588		
D15, 16	0310330, 1	1N60		2 A
C01-04	0655103	10000pF 500V C.C.		2 B
C05, 06	0559382	10000/tF 50V E.C.		1 C
C07	0549302	1000/tF 80V E.C.		3 B
C08	0549301	470/tF		3 A
R04	0192101	100Ω ½W Fuse R.		3 A
R17, 18	0135338	0.33Ω 5W Ce.R.		1 A
R19, 20	0135338	0.33Ω		1 B, 1 A
R21, 22	0103479	4.7Ω ½W C.R.		2 B, 2 A
R23, 24	0133479	4.7Ω 3W Ce.R.		2 A
R27, 28	0192479	4.7Ω ½W Fuse R.		

Parts No.	Stock No.	Description	Position
R29	0192479	4.7Ω ½W Fuse R.	3 B
R30	0182822	8.2kΩ 2W Ce.R.	1 B
R31, 32	0210471	470Ω ½W M.R.	2 A
R33, 34	0192479	4.7Ω ½W Fuse R.	2A,B, 2 A
L01, 02	4290210	Filter Coil	2 A
RL01	1150370	Relay	2 A
VR01, 02	1035110	4.7kΩ (B)	2 A
F02, 03	0432500	7A 125V AC Fuse	2 B
F04	0432260	3A 250V AC Fuse	3 B
	2410720	4P Pin Ass'y Type A	
	2410730	6P Pin Ass'y Type A	
	2410920	3P Pin Ass'y Type E	
	2410950	6P Pin Ass'y Type E	

4-2. F-2627 Illumination Circuit Board (Stock No. 7594141)

Conductor Side

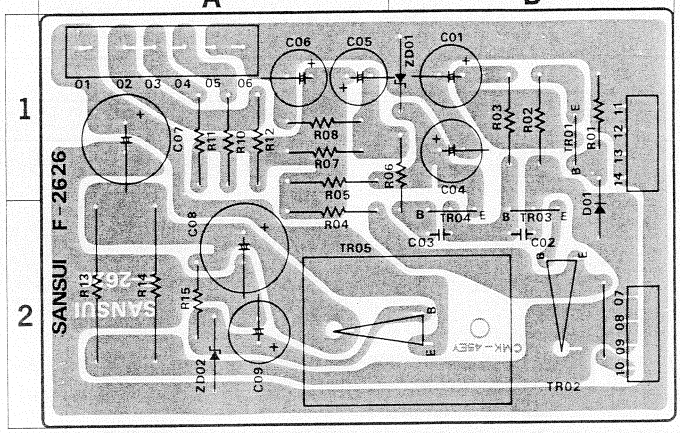


Parts List

Parts No.	Stock No.	Description
D01	0310340	10D1 Diode
C01	0511471	470/tF 10V E.C.
R01	0191180	18Ω ¼W Fuse R.

4-3. F-2626 Power Supply Circuit Board (Stock No. 7501701)

Conductor Side

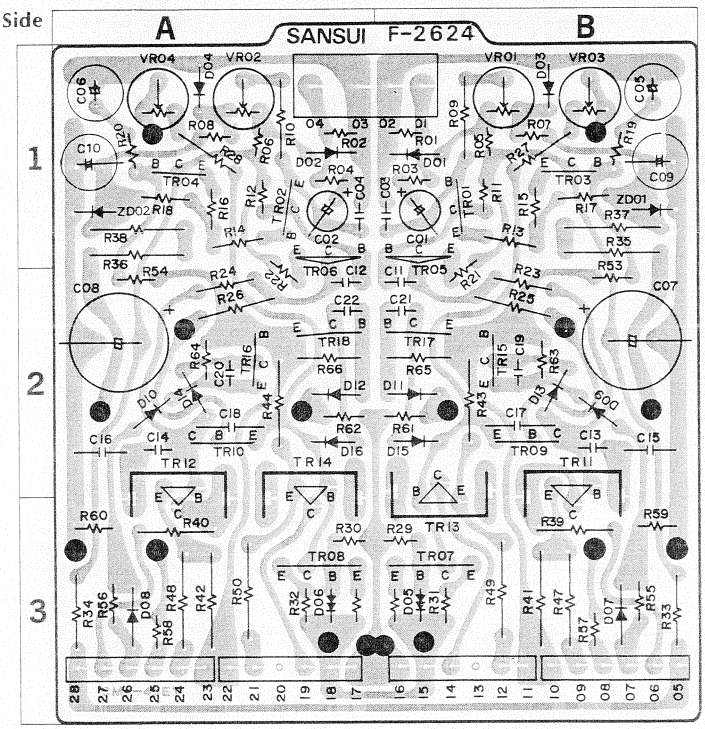


Parts List

Parts No.	Stock No.	Description	Position
TR01	0300310, 1	2SA697 (C, D)	1 B
TR02	0308411, 2	2SD314 (D, E)	2 B
TR03	0305930, 1	2SC-1211 (C, D) Transistor	2 B
TR04	0305930, 1	2SC-1211 (C, D)	2 B
TR05	0308551, 2, 3	2SD315V10(D,E,F)	2 A, B
D01	0340120	VD1212 Varistor	1, 2 B
ZD01	0315970	EQA01-13R Zener Diode	1 B
ZD02	0315970	EQA01-13R	2 A
R02	0210391	390Ω ½W M.R.	1 B
R03	0210332	3.3kΩ	1 B
R04	0210220	22Ω	2 A
R05	0210472	4.7kΩ	1 A
R10	0210271	270Ω	1 A
R11	0210681	680Ω	1 A
R12	0210681	680Ω	1 A
R13	0183561	560Ω 3 W Ce.R.	2 A
R14	0183561	560Ω	2 A
	2410950	6P Type E Pin Ass'y	
	2420510	5P Type A Connector Ass'y	

4-4. F-2624 Driver Circuit Board (Stock No. 7571411)

Conductor Side

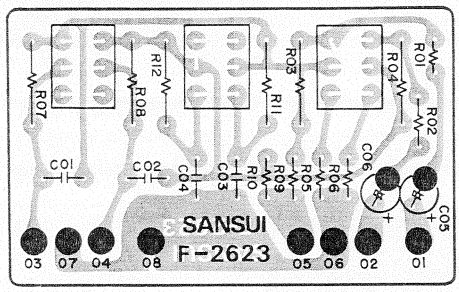


Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306270, 1	2SC1708 (F, G)	1 B, 1 A
TR03, 04	0306270, 1	2SC1708 (F, G)	1 B, 1 A
TR05, 06	0300790, 1	2SA899 (G, B)	1 B, 1 A
TR07, 08	0306400, 1	2SC1904 (G, B)	3 B, 3 A
TR09, 10	0305871, 2	2SC984 (B, C) Transistor	2 B, 2 A
TR11, 12	0308431, 2	2SD381 (M, L)	2,3B,2,3A
TR13, 14	0303260, 1	(N, M)	2,3B,2,3A
TR15, 16	0305951, 2	2SC945 (Q, P)	2 B, 2 A
TR17, 18	0300510, 1	2SA733 (P, Q)	2 B, 2 A
D01, 02	0311160	1S2473D	1,2 B, 1 A
	0311180	1S1588 Diode	
D03, 04	0311160	1S2473D	1 B, 1 A
	0311180	1S1588	
D05, 06	0340120	VD1212 Varistor	3 B, 3 A
D07, 08	0311160	1S2473D	3 B, 3 A
	0311180	1S1588	
D09, 10	0311160	1S2473D	2 B, 2 A
	0311180	1S1588	
D11, 12	0311160	1S2473D Diode	2 B, 2 A
	0311180	1S1588	
D13, 14	0311160	1S2473D	2 B, 2 A
	0311180	1S1588	
D15, 16	0311160	1S2473D	2 B, 2 A
	0311180	1S1588	
ZD01, 02	0316070	EQA01-24R Zemer Diode	1 B, 1 A
R33, 34	0191181	180Ω ¼W Fuse R	3 B, 3 A
R35, 36	0191479	4.7Ω	1 B, 1 A
R37, 38	0210392	3.9kΩ ½W M.R.	1 B, 1 A
R39, 40	0192100	10Ω ½W Fuse R.	3 B, 3 A
R41, 42	0192151	150Ω	3 B, 3 A
R43, 44	0192151	150Ω	2 B, 2 A
R47, 48	0192479	4.7Ω	3 B, 3 A
R49, 50	0192479	4.7Ω	3 B, 3 A
VR01, 02	1035350	4.7kΩ (B)	1 B, 1 A
VR03, 04	1035310	1kΩ (B)	1 B, 1 A
	2410930	4P Type E Pin Ass'y	
	2420520	6P Type A Connector Ass'y	

4-5. F-2623 Filter Circuit Board (Stock No. 7594131)

Conductor Side

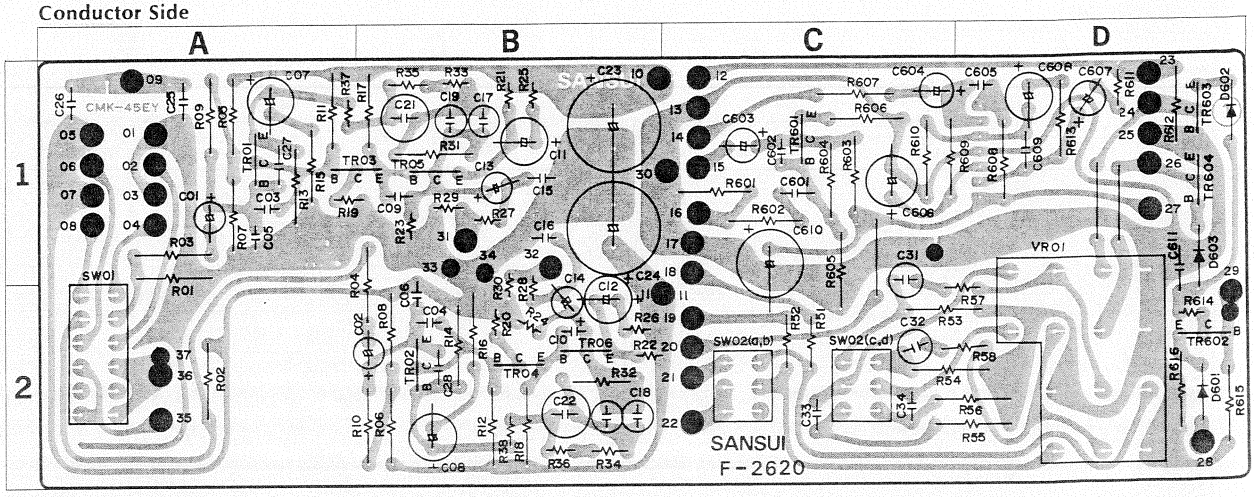


Parts List

Parts No.	Stock No.	Description
S01	1131270	Push Switch

4-6. F-2620 Equalizer & Mic Circuit Board (Stock No. 7550951)

Conductor Side

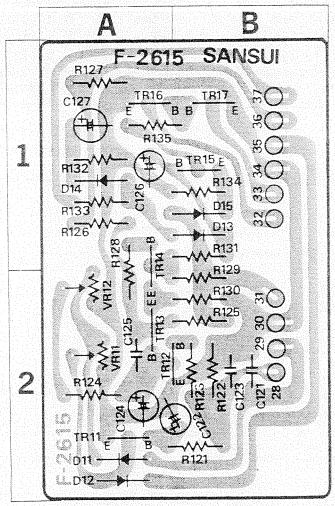


Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 F, G	1 A, 2 B
TR03, 04	0300470, 1	2SA726 (W) F, G	1 A, B, 2B
TR05, 06	0300470, 1	2SA726 (W) F, G	1 B, 2 B
TR601	0306070, 1	2SC1313 F, G	1 C
TR602	0300470, 1	2SA726 (W) F, G	2 D
TR603, 604	0306390, 1	2SC1636-1, -2	1 D
IC601	0360190	BA312 IC	
D601	0311160 / 0311180	1S2473D / 1S1588 Diode	2 D
D602	0311160 / 0311180	1S2473D / 1S1588 Diode	1 D
D603	0311160 / 0311180	1S2473D / 1S1588 Diode	1, 2 D
C01, 02	0573339	3.3μF 35V T.C.	1 A, 2 B
C17, 18	0625102	1000pF 50V P.C.	1 B, 2 B
C19, 20	0620361	360pF 50V P.C.	1 B
C21, 22	0625472	4700pF 50V P.C.	1 B, 2 B
C31, 32	0620331	330pF 50V P.C.	2 C
R31, 32	0231563	56kΩ ½W M.C.	1 B, 2 B
R35, 36	0231684	680kΩ ½W M.C.	1 B, 2 B
VR01	1060320, 1	250kΩ M.N B×2	2 D
S01	1131250	Push Switch	2 A
S02	1131260	Push Switch	2 C

4-7. F-2615 FM Muting Circuit Board (Stock No. 7521311)

Conductor Side

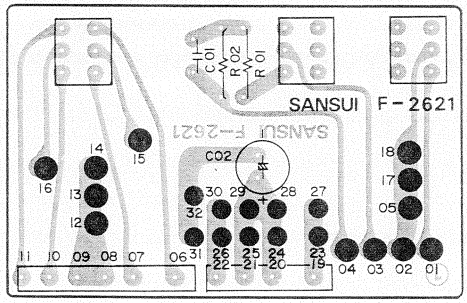


Parts List

Parts No.	Stock No.	Description	Position
TR11	0305731, 2 / 0305951, 2	2SC711 (E, F) / 2SC945 (Q, P) Transistor	2 A
TR12	0305731, 2 / 0305951, 2	2SC711 (E, F) / 2SC945 (Q, P) Transistor	2 A
TR13	0305731, 2 / 0305951, 2	2SC711 (E, F) / 2SC945 (Q, P) Transistor	2 A
TR14	0305731, 2 / 0305951, 2	2SC711 (E, F) / 2SC945 (Q, P) Transistor	1, 2 A
TR15	0300510, 1	2SA733 (P, Q) Transistor	1 B
TR16	0306390	2SC1636-1 Transistor	1 A
TR17	0306390	2SC1636-1 Transistor	1 B
D11	0311160 / 0311180	1S2473D / 1S1588 Diode	2 A
D12	0311160 / 0311180	1S2473D / 1S1588 Diode	2 A
D13	0311160 / 0311180	1S2473 / 1S1588 Diode	1 B
D14	0311160 / 0311180	1S2473D / 1S1588 Diode	1 A
D15	0311160 / 0311180	1S2473D / 1S1588 Diode	1 B
VR11	1035410	47kΩ (B)	2 A
VR12	1035430	100kΩ (B)	2 A
	2420510	4P Type A Connector Ass'y	
	2420520	6P Type A Connector Ass'y	

4-8. F-2621 Accessory Switch Circuit Board (Stock No. 7594121)

Conductor Side

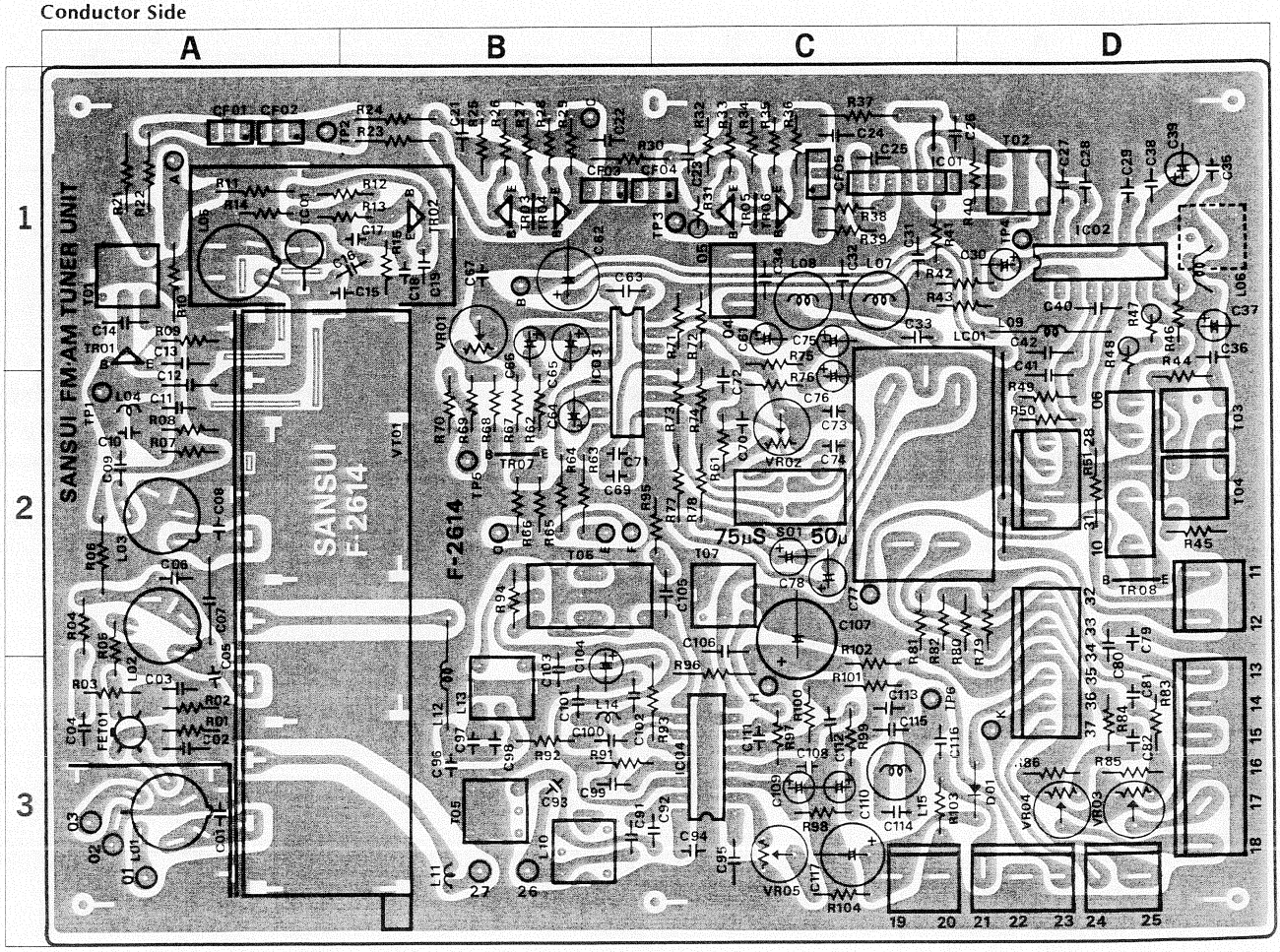


Parts List

Parts No.	Stock No.	Description
S01	1131280	Pussh Switch
	2410930	4P Pin Ass'y Type E
	2410950	6P Pin Ass'y Type E

4-9. F-2614 Tuner Circuit Board (Stock No. 7521301)

Conductor Side



Parts List

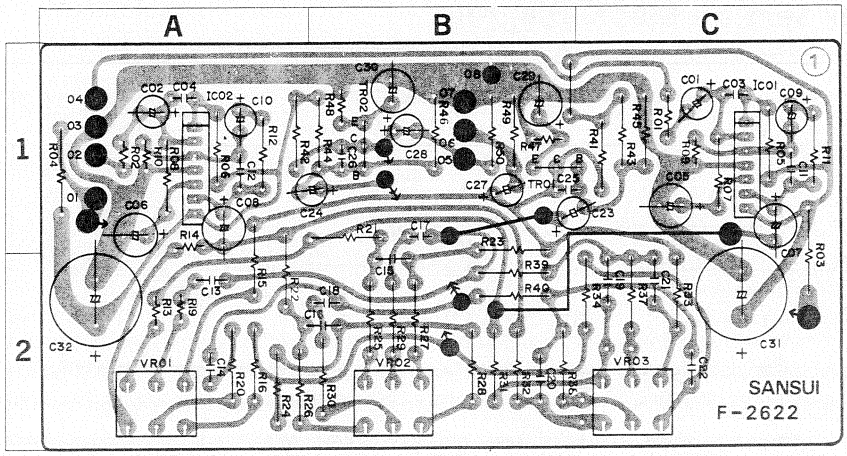
Parts No.	Stock No.	Description	Position
TR01	0305801, 2	2SC1047 (B)	1 A
TR02	0305801, 2	2SC1047 (B, C)	1 B
TR03	0306341, 2	2SC1674 (L, K)	1 B
TR04	0306341, 2	2SC1674 (L, K)	1 B
TR05	0306341, 2	2SC1674 (L, K)	1 C
TR06	0306341, 2	2SC1674 (L, K) Transistor	1 C
TR07	0305731, 2	2SC711 (E, F)	2 B
	0305951, 2	2SC945 (Q, P)	
TR08	0300221	2SA562 (Y)	2 D
	0300311	2SA697 (D)	
IC01	0360120	IC μPC55H	1 C
IC02	0360350	IC HA1137W	1 D
IC03	0360320	IC HA1196 IC	1, 2 B
IC04	0360390	IC HA1197	3 C
FT01	0370121, 2	3SK41 (L) FET	3 A
C01	0669325	15 pF	3 A
C05	0669325	15 pF 50V C.C.	3 A
C08	0669325	15 pF	2 A
C12	0679008	1 pF 50V G.C.	2 A
C15	0669330	20 pF	1 A, B
C16	0669295	10 pF	1 A, B
C17	0669295	10 pF 50V C.C.	1 B
C18	0669295	10 pF	1 B
C35	0669204	3.3 pF	1 D

Parts No.	Stock No.	Description	Position
C67	0629005	360 pF	1 B
C73	0620561	560 pF 50V P.C.	2 C
C74	0620561	560 pF	2 C
C96	0669400	15 pF	3 B
C97	0669400	15 pF 50V C.C.	3 B
C98	0620361	360 pF 50V P.C.	3 B
L01	4200720	Antenna Coil	3 A
L02	4210340	RF Coil	2 A
L03	4210340		2 A
L04	4900140	Inductor	2 A
L05	4220400	OSC Coil	1 A
L06	4290280		1 D
L07	4900250	Inductor	1 C
L08	4900240		1 C
L09	4290011	Choke Coil	1 D
L11	4900100	Inductor	3 B
L12	4290011	Choke Coil	2, 3 B
L13	4220650	OSC Coil	3 B
L14	4900110	Inductor	3 B
L15	4900220		3 C
T01	4235930		1 A
T02	4235930	IC Coil	1 D
T03	4235990, 1		2 D
T04	4236000, 1		2 D
T06	0910280	Ceramick Filter	2 B

Parts No.	Stock No.	Description	Position
T07	4230620	IC Coil	2 C
CF01	0910150		1 A
CF02	0910150		1 A
CF03	0910150	Ceramick Filter	1 B
CF04	0910150		1 B, C
CF05	0910150		1 C
LC01	0910360	Low Pass Filter	2 C, D
VR01	1034250		1 B
VR02	1035190	100kΩ (B)	2 C
VR05	1035110	4.7kΩ (B)	3 C
S01	1110270	Slide Switch	2 C
VT01	1220260	Variable Capacitor	2, 3 A B
TC01	1230090	Trimmer Capacitor	1 A
	2410570	5P Type D Pin Ass'y	
	2410650	5P Type D Pin Ass'y	
	2410850	4P Type B Pin Ass'y	
	2410860	6P Type B Pin Ass'y	
	2410910	2P Type E Pin Ass'y	
	2410920	3P Type E Pin Ass'y	
	2410950	6P Type E Pin Ass'y	

4-10. F-2622 Tone Control Circuit Board (Stock No. 7561481)

Conductor Side



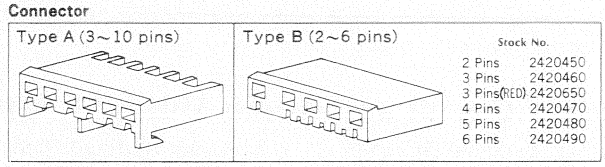
Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G) Transiststor	1 B
IC01, 02	0360190	BA312 IC	1 C, 1 A
R03, 04	0210821	820Ω ½W M.R.	1, 2 C, 1 A
VR01	1015180, 1	100kΩ (B×2) Tone Control Volume	2 A
VR02	1015180, 1	100kΩ (B×2)	2 B
VR03	1015180, 1	100kΩ (B×2)	2 C

4-11. Figures

Connector & Pin Ass'y

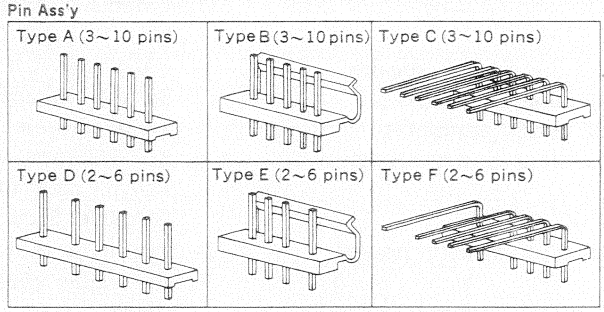
Connector



Stock No.	
2 Pins	2420450
3 Pins	2420460
3 Pins(RED)	2420650
4 Pins	2420470
5 Pins	2420480
6 Pins	2420490

NOTE: Since stock number of famale connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

Pin Ass'y

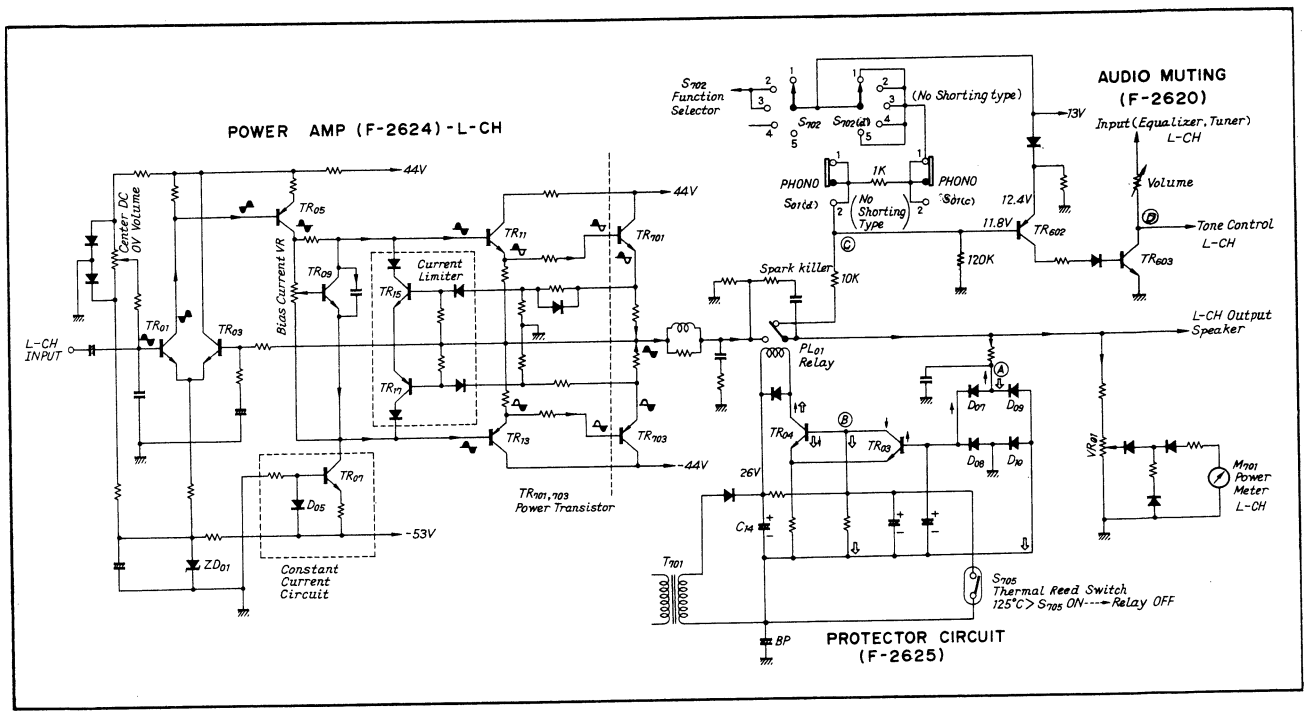


Abbreviations

C.R.	:	Carbon Resistor	BP.E.C.	:	Bi-Polar Electrolytic Capacitor
S.R.	:	Solid Resistor			
Ce.R.	:	Cement Resistor	C.C.	:	Ceramic Capacitor
M.R.	:	Metallized Film Resistor	Mi.C.	:	Mica Capacitor
			O.C.	:	Oil Capacitor
M.C.	:	Mylar Capacitor	P.C.	:	Polystyrene Capacitor
E.C.	:	Electrolytic Capacitor	E.C.	:	Tantalum Capacitor

5. OPERATION BLOCK DIAGRAM

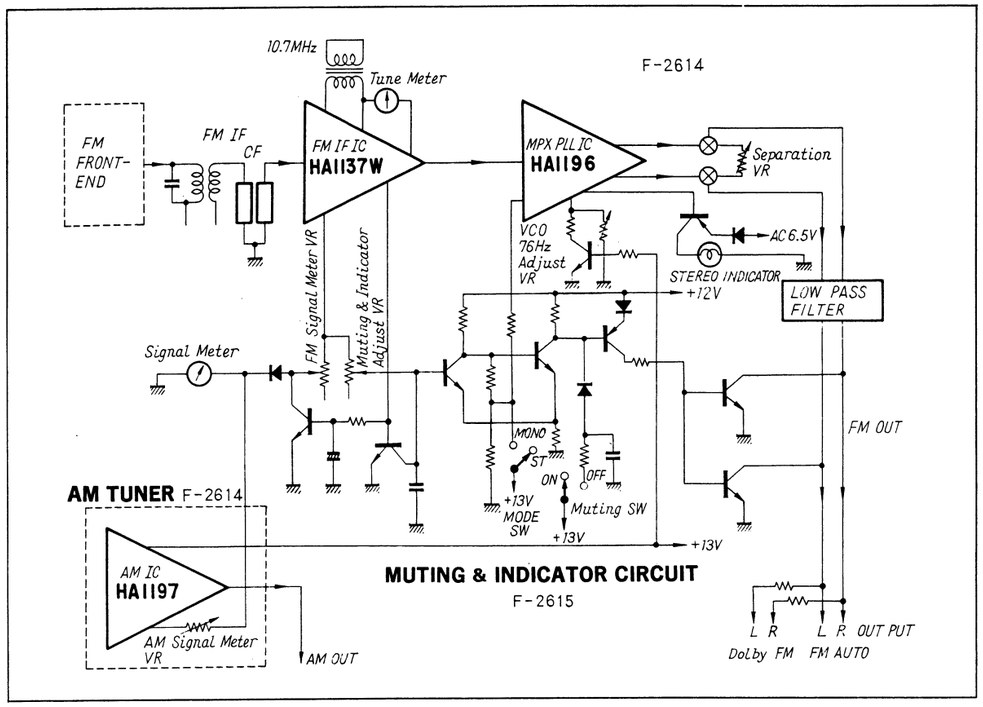
5-1. Power AMP. & Protector Section BlocK Diagram



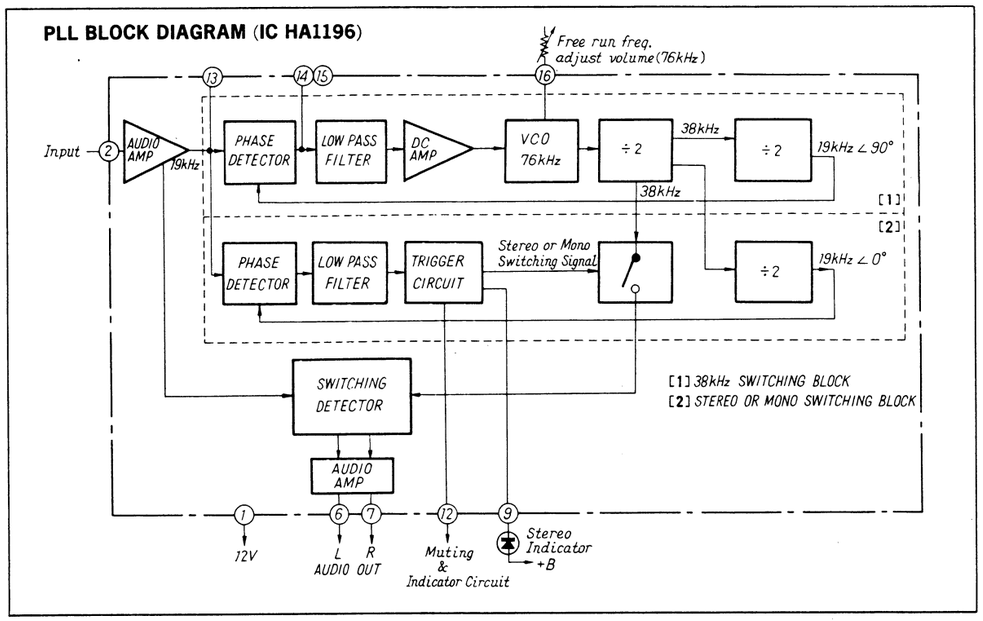
※ Operations of Protector Circuit and Audio Muting Circuit

1. Speaker Protector Circuit sensing abnormal DC voltage level at speaker terminals.
   (1) When exceeding over DC +2.5V at point A
      1. TR03 turns on through D07 and TR04 off.
      2. By TR04 off, Relay RL01 turns off.
      3. By the Relay RL01 off, it disconnects speaker terminals from power amplifier output.
   (2) When appearing lower DC −2.5V at point A
      1. Voltage level at point B drops down through D09 and TR04 turns off.
      2. As same as above steps 1-2 and 1-3.
2. Protector Circuit against thermal run-away in power transistor
      1. When rising over 125°C on the surface of heatsink, thermal reed switch S705 turns on automatically.
      2. By the switch S705 on, voltage level at ponit B drops down and TR04 becomes off.
      3. By TR04 off, Relay RL01 becomes off, resulting in the relay being released, namely it separates between speakers and power amplifier output.
      4. When temperature on the surface of heatsink reduces in a certain degrees, the switch S705 turns on.
      5. By the Relay on, it connects again speaker terminals from power amplifier output.
3. Audio Muting Circuit
   (1) This circuit is used to cut click noise caused by switching SELECTOR or PHONO push button.
      1. When switching S702 (d) or S01 (d) (c), voltage level at point C drops down due to non-shorting switch.
      2. By the voltage-drop at point C, TR602 and TR603 turn on.
      3. By TR603 on, voltage level at point D drops down, then tone control circuit and Power Amplifier Stage do not operate completely.
   (2) This circuit is also used to cut pop noise through Spark killer caused by turning on the power switch.
      1. When turning on the power switch, the Relay RL01 remains off for a few seconds.
      2. Voltage level at point C drops down through speakers, the Relay and resistor 10 kohms.
      3. TR602 and TR603 turn on, then voltage level at point D drops down.
      4. By voltage-drop at point D, Tone Control Circuit and power amplifier stage do not operate completely.
      5. When the Relay turns on, by delay-operation of relay circuit with R C time constant, voltage levels at point C and D increase, then these circuits begins to operate completely.

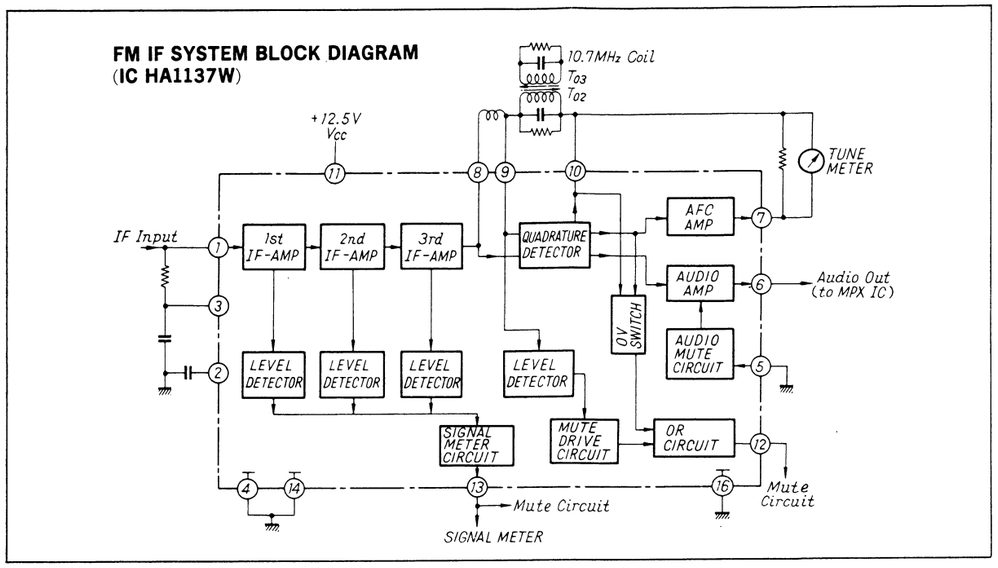
5-2. Tuner Section Block Diagram



5-3. PLL Block Diagram (IC HA1196)



5-4. FM IF System Block Diagram (IC HA1137W)



※Functions (IC HA1137W)

This IC has operating functions of various circuits as listed below.

1) IF AMP.
2) Quadrature detection.
3) Low-Noise audio Preamp.
4) Delayed AGC detector and driver for Front-end.
5) Signal meter circuit.
6) Center meter circuit.
7) Muting (operation to input signal strength).
8) Muting (operation at detuning).
9) Multipass circuit.

※Main features (IC HA1137W)

1. This IC includes all functions required in FM IF stage.
2. As indicated above, this IC has functions of Muting circuit which operates below a certain input signal level. And also the IC includes new muting circuit, namely it has 0 volt switch which operates the muting circuit when the difference (absolute value) of detector output voltage between Tuning-ON and Detuning exceeds a certain voltage, utilizing S-curve characteristics of FM detector. By this advantage, it is possible to eliminate or avoid "Pop noise" caused by variation of the DC voltage at tuning-OFF.
3. The IC makes it possible to produce high-quality tuner having better selectivity and sensitivity by connecting 6-element filters between Front-end and the IC, as it has higher gain and better suppression ratio in amplitude modulation.
4. Linear swing of signal meter is obtained.

※Main features of PLL (IC HA1196)

In the multiplex demodulation circuit, because of sub-carrier wave (38kHz) being required for demodulation, the pilot signal (19kHz) sent from FM stereo broadcasting station is being made while doubling.

It is necessary for this sub-carrier wave that its phase confirms to that of pilot signal correctly, and if there is any phase difference between them, FM stereo separation becomes poor.

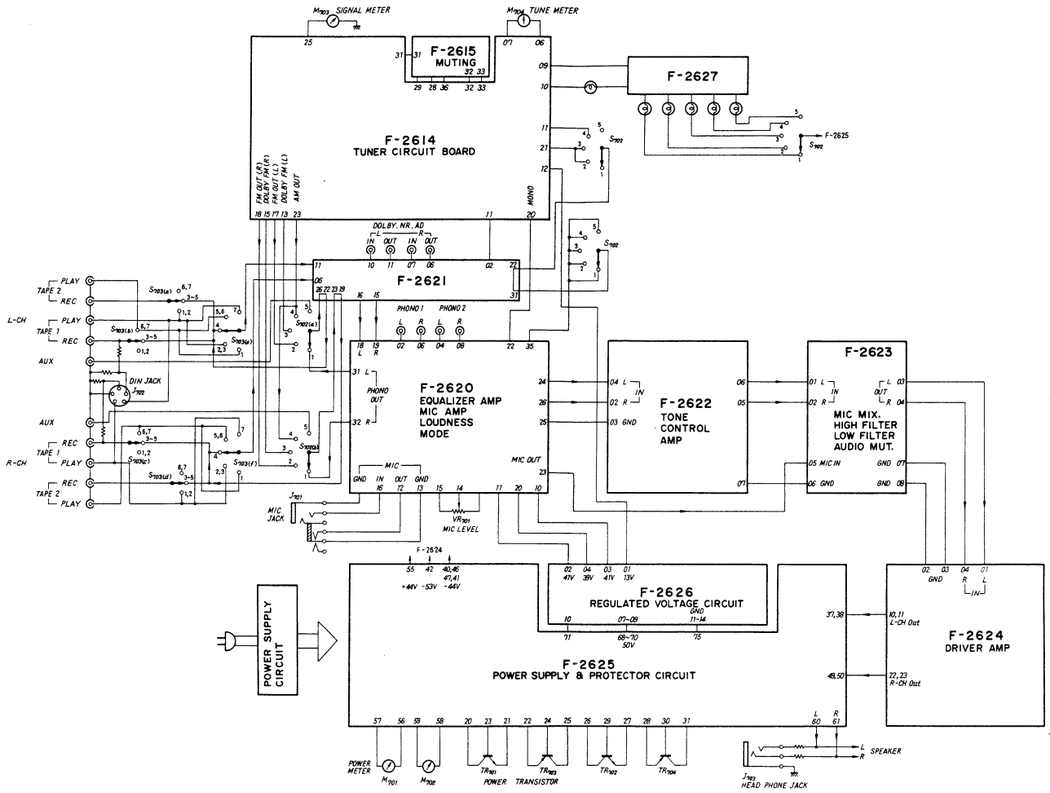
In the conventional products, LC resonance circuit has been used so far for the circuit of this section, on the other hand, in model 7070, IC in PLL is used, which prevents FM stereo separation from becoming poor due to deviation in resonance frequency or phase to temparature change and, in result, ensures stereo separation of more than 50dB at 1kHz.

Advantages

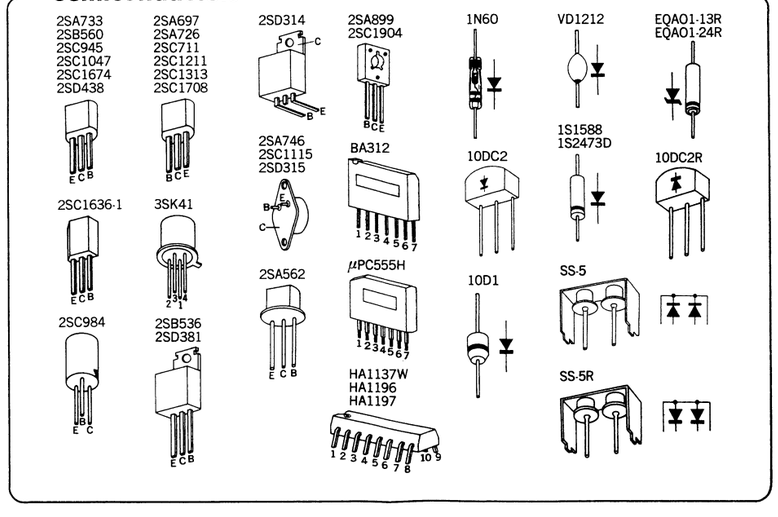
1) Selectivity is superior.
2) Phase characteristics is good.
3) It is virtually not affected by temperature.
4) No secular change occurs.

6. SCHEMATIC DIAGRAM

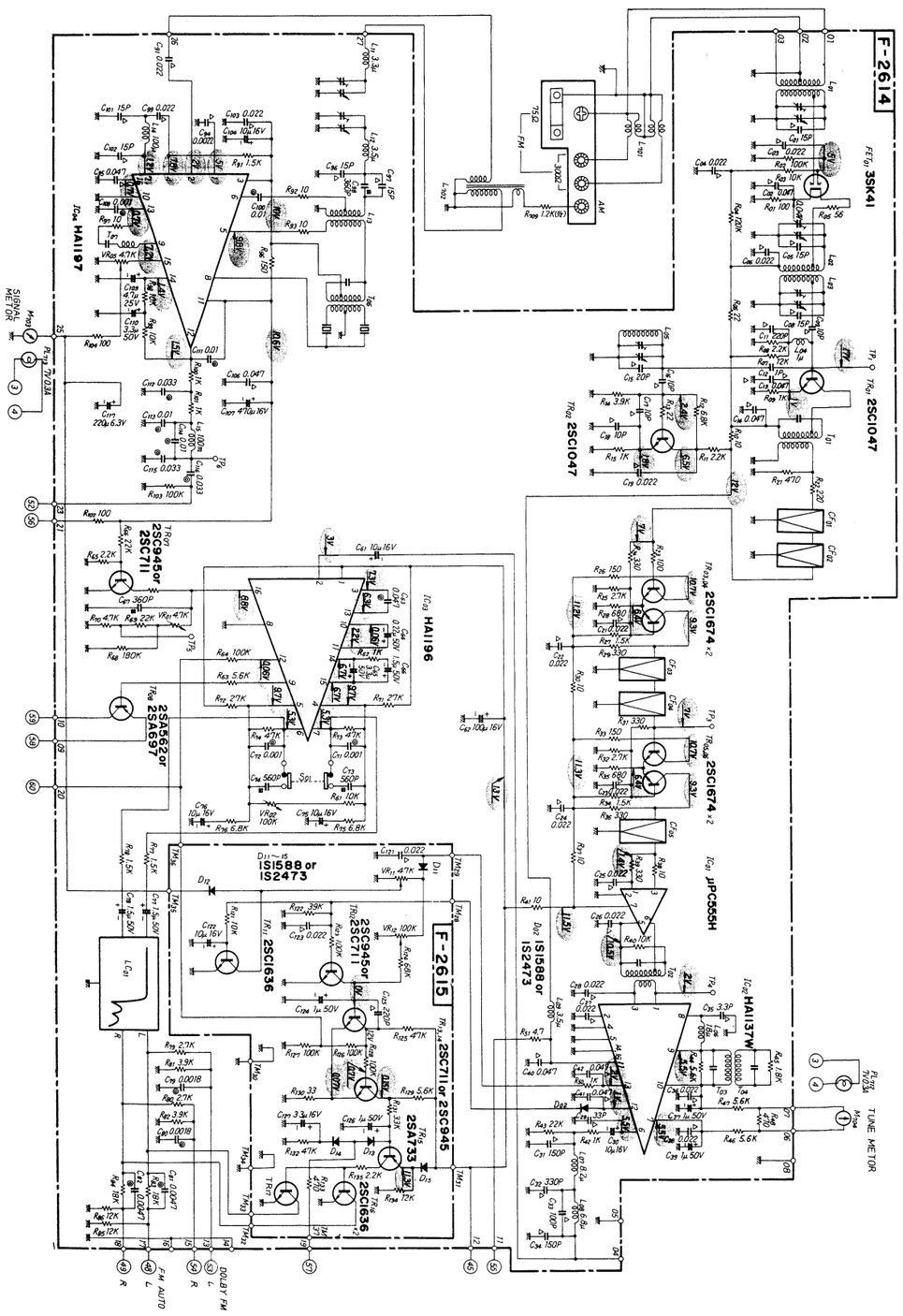
(1) BLOCK DIAGRAM



Semiconductors

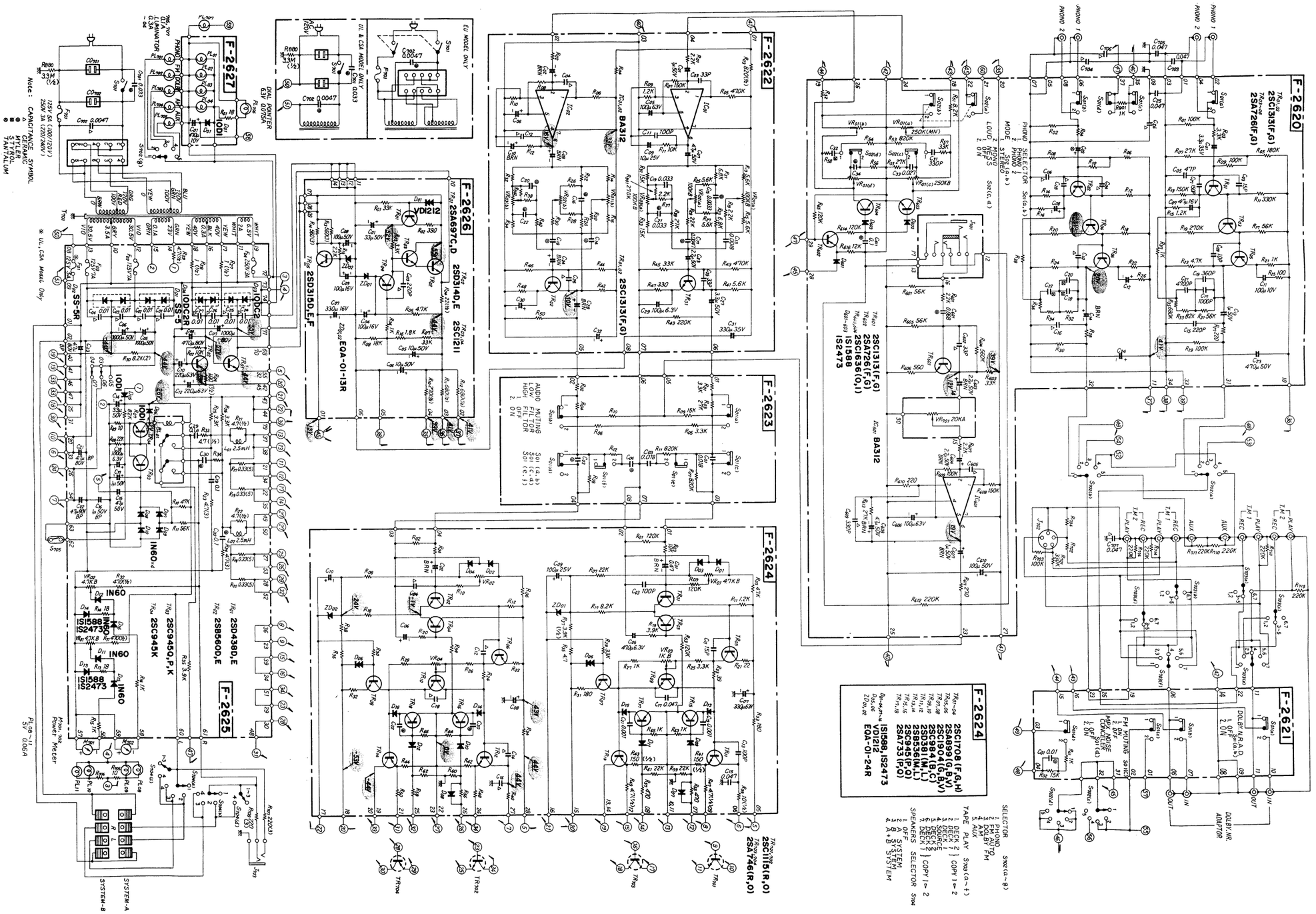


(2) TUNER SECTION



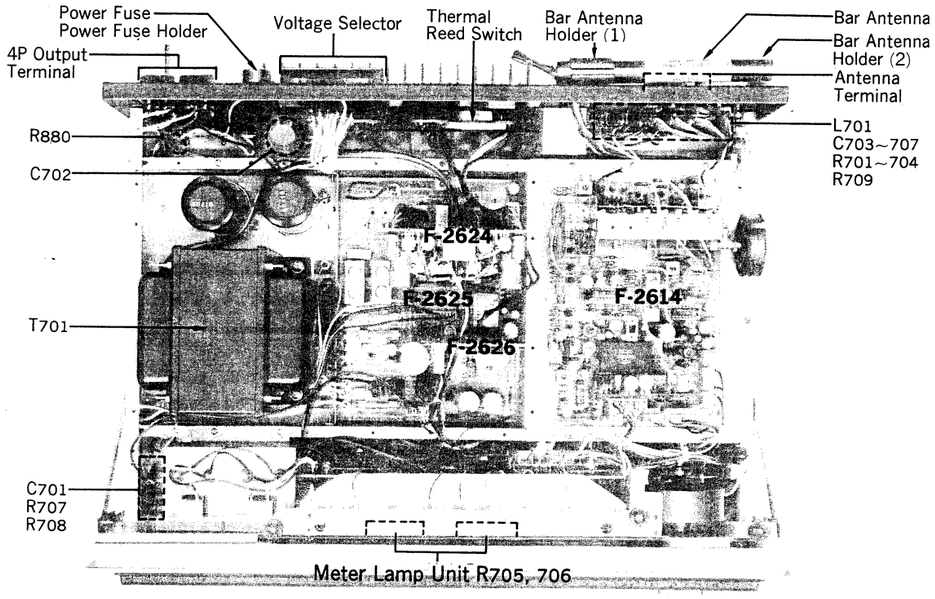
(3) AUDIO SECTION

- La présention et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
- Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
- Design and specifications subject to change without notice for improvement.

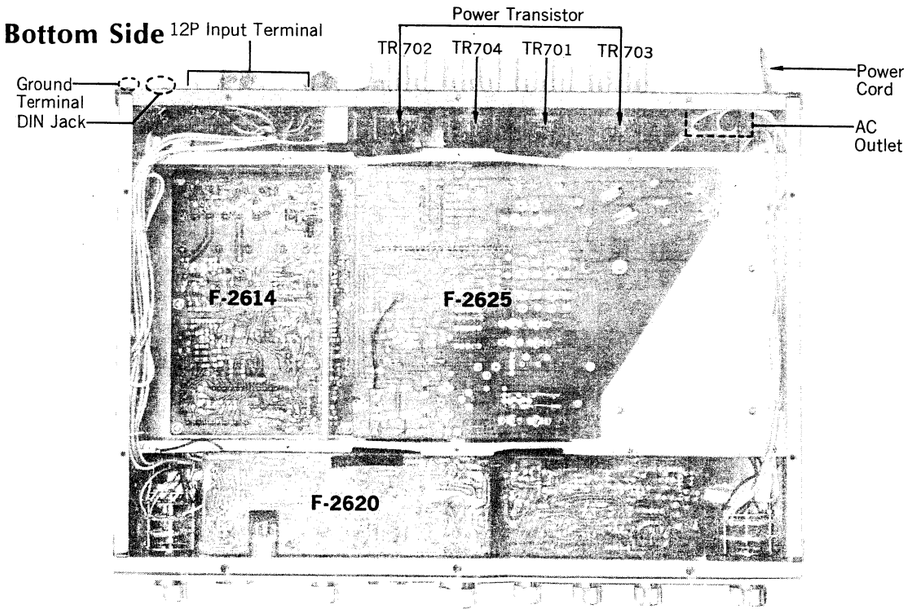


7. OTHER PARTS

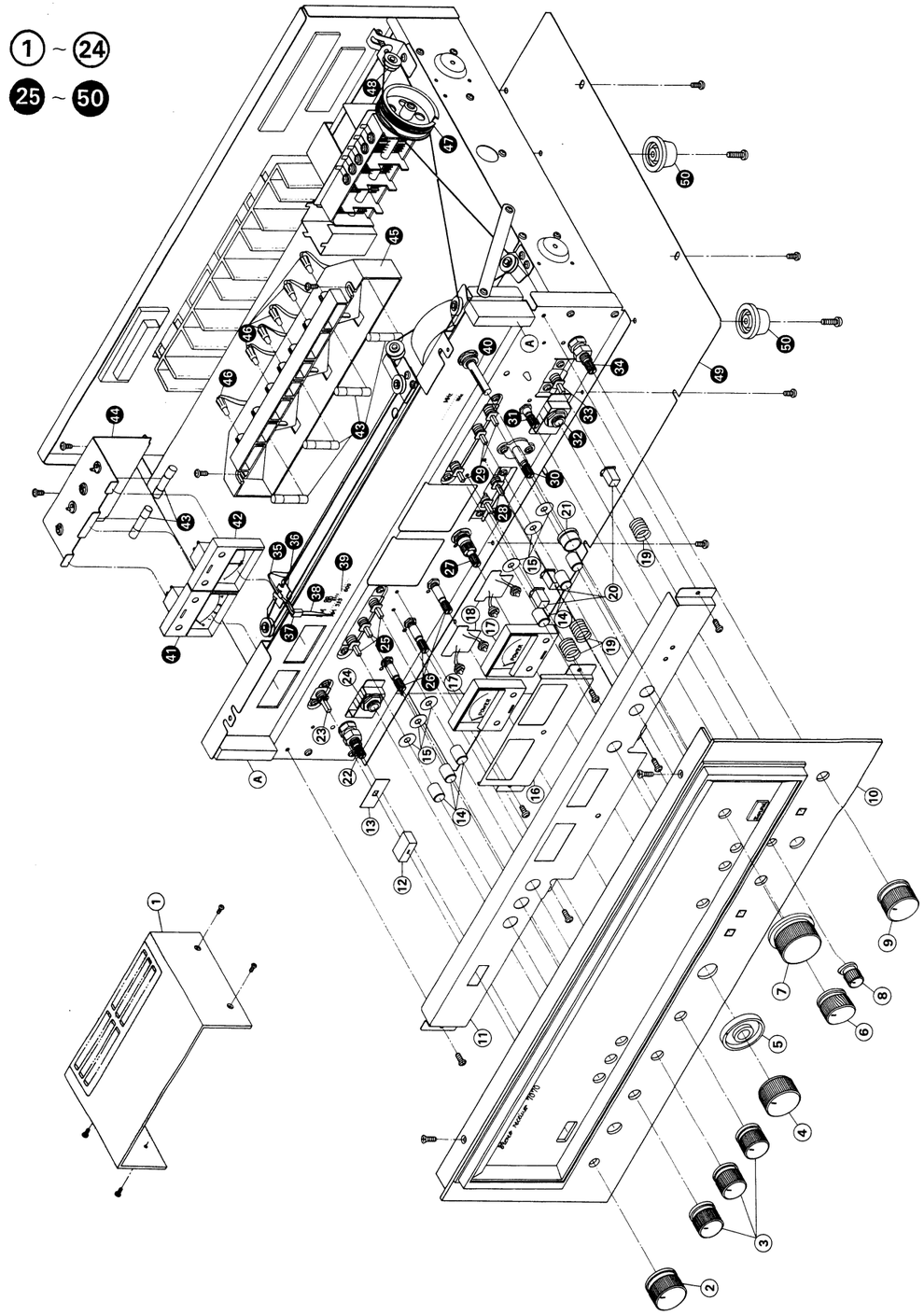
7-1. Top Side



7-2. Bottom Side



7-3. Exploded View



Parts List (Top Side & Bottom Side)

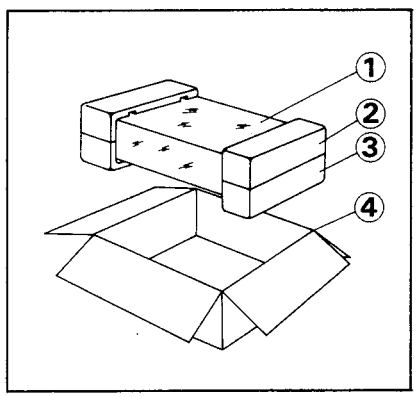
Parts No.	Stock No.	Description
TR701	0306230, 1	2SC1115 (R, O) } Power Transistor
TR702	0306230, 1	2SC1115 (R, O) }
TR703	0300870, 1	2SA746 (R, O) }
TR704	0300870, 1	2SA746 (R, O) }
C701	0605337	0.033μF 250V M.C.
C702	0659802	0.0047μF 150V C.C.
C703~707	0657473	47000pF 50V C.C.
R701, 702	0107104	100kΩ ¼W C.R.
R703, 704	0107334	330kΩ ¼W C.R.
R705, 706	0191100	10Ω ¼W Fuse R.
R707, 708	0163221	220Ω 3W Ce. R.
R709	0103122	1.2kΩ ½W C.R.
R880	0114335	3.3MΩ ½W S.R.
T701	4002450	Power Transformer
L701	4290021	Antenna Transformer, 75Ω/300Ω
L702	4200830, 1	Bar Antenna
	5286450	Bar Antenna Holder (1)
	5286480	Bar Antenna Holder (2)
C701, 702	2450060	AC Outlet
J702	2430041	DIN Jack
F701	0432260	3A 250V (230/240V) } Power Fuse
	0432290	5A 125V (100/125V) }
	2300060	Fuse Holder, Power Fuse
	3800010	Power Cord
	2210310	Antenna Terminal
	2290160	4P Output Terminal
	2200470	12P Input Terminar
	2230150	Ground Terminal
	2410830	Voltage Selector Socket
	2410091	Voltage Selector Plug
	5268600	Voltage Selector Cover
	7726040	Meter Lamp Unit
S705	1900020	Thermal Reed Switch

Parts List (Exploded View)

Parts No.	Stock No.	Description
1	5727000	Bonnet
2	5318380	M-7 Type Knob, Speaker Switch
3	5318410	S-10 Type Knob, Tone Control
4	5318440	WI-6 Type Knob, Volume
5	5318431	WO-8 Type Knob, Balance Volume
6	5318410	S-10 Type Knob, Tape Play Switch
7	5318420	T-12 Type Knob, Tuning
8	5318340	Knob, MIC Level
9	5318380	M-7 Type Knob, Selector
10	7007350	Front Panel Ass'y
	5047940	Smoked Plate
	5286721	Knob, Guide
	5304780	Panel Window
	5336500	Sansui Mark
	5304790	Front Panel
11	5288010	Front Bracket
12	5326570	Knob, Power Switch
13	5047470	Masking Sheet, Power Switch
14	5326550	Knob, Push Switch
15	5186330	Masking Sheet, Push Switch
16	5287970	Meter Holder Ⓐ
17	4300920	Power Meter
18	7726040	Power Meter Circuit Board
19	6906480	Spring
20	5326530	Knob, Push Switch
21	5396300	Masking Ring
22	1102700, 1	Speakers Switch
23	1131190	Power Switch
24	2430190	Head Phone Jack
25	1131270	Push Switch
26	1015180, 1	Tone Control Volume, 100kΩB×2
27	1060320, 1	Volume/Balance Volume, 250k M.N., 250kΩB×2
28	1131260	Lever Switch
29	1131280	Push Switch
30	1102710, 1	Tape Play Switch
31	1005170, 1	MIC Level Volume, 20kΩ
32	2430170	MIC Jack
33	1131250	Phono Switch
34	1103560, 1	Function Switch
35	0400200	Dial Pointer Lamp, 6.3V 75mA
36	5516030	Teflon Sheet
37	5416350	Holder, Dial Pointer
38	5416050	Dial Pointer
39	5408080	Dial Glass
40	7036481	Tuning Unit Ass'y
41	4300740	Signal Meter
42	4300750	Tune Meter
43	0420040	Lamp, 7V 320mA
44	5287980	Meter Holder (B)
45	5066211	Illimination Box
46	0400450	Stereo Indicator Lamp, 7V 100mV
47	6146670	Dial Pulley, D44
48	7136082	Tension Unit
49	5058640	Bottom Plate
50	5516821	Leg
Ⓐ	5047930	Shadow Packing

8. PACKING LIST

Parts No.	Stock No.	Description
1	9116680	Vinyl Cover
2	9027990	Stylofoam Packing
3	9027990	Stylofoam Packing
4	9009210	Carton Case
5	5996080	Curl Stopper



9. ACCESSORY PARTS LIST

Stock No.	Description
9209840	Operating Instructions
9237380	Schematic Diagram
2410560	Short Pin Plug

Sansui
SANSUI ELECTRIC CO., LTD.
14-1, 2-chome, Izumi, Suginamiku, Tokyo 168, Japan.
TELEPHONE: (03) 323-1111 / TELEX: 232-2076

Printed in Japan (660720M)

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COMMON PARTS LISTS FOR RESISTORS & CAPACITORS ONLY

Replacement Parts, most resistors & capacitors are common to Sansui models unless specified otherwise, therefore these resistors and capacitors in this list are not shown in parts lists of Service Manual. When replacing these parts, confirm the value, wattage (or capacity) and tolerance referring to this list and Schematic Diagram for easier check.
When ordering parts, use the parts name and Stock No. referring to Parts Lists.

◇TYPES OF COMMON RESISTORS & CAPACITORS

〔**Resistors**〕

Carbon resistor ¼W
Solid resistor ¼W

〔**Capacitors**〕

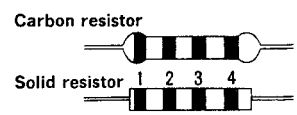
Ceramic capacitor
1) 50V Standard type
2) 50V Temperature compensation type

Mylar capacitor (50V)

Electrolytic capacitor (Vertical type)
1) Non-polar type (6.3V～80V)
2) Polar type (6.3V～80V)
3) Polar type (low noise) (25V &50V)

◇Resistors

——How to read color cord——



1) 2) Constant
3 Multiplier
4 Tolerance (%)

For example:
1. Brown 2. Red
3. Orange 4. Silver

$12 \times 10^3 (\Omega) \pm 10\%$
$12k\Omega \pm 10\%$

Color	1	2	3	4
Black	0	0	10^0	
Brown	1	1	10^1	
Red	2	2	10^2	
Orange	3	3	10^3	
Yellow	4	4	10^4	
Green	5	5	10^5	
Blue	6	6	10^6	
Purple	7	7	—	
Gray	8	8	—	
White	9	9	—	
Gold	—	—	10^{-1}	± 5 %
Silver	—	—	10^{-2}	±10%
Colorless	—	—	—	±20%

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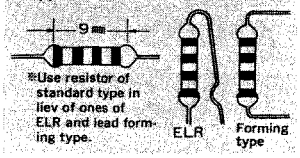
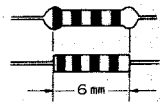
▶RESISTORS

Carbon resistor (Standard type)
¼W Tolerance ±5%



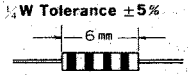
Value (Ω)	Stock No.
1.5	0107159
1.8	0107189
2.2	0107229
2.7	0107279
3.3	0107339
3.9	0107399
4.7	0107479
5.6	0107569
6.8	0107689
8.2	0107829
10.0	0107100
12.0	0107120
15.0	0107150
18.0	0107180
22.0	0107220
27.0	0107270
33.0	0107330
39.0	0107390
47.0	0107470
56.0	0107560
68.0	0107680
82.0	0107820
100.0	0107101
120.0	0107121
150.0	0107151
180.0	0107181
220.0	0107221
270.0	0107271
330.0	0107331
390.0	0107391
470.0	0107471
560.0	0107561
680.0	0107681
820.0	0107821
1.0K	0107102
1.5K	0107152
1.8K	0107182
2.2K	0107222
2.7K	0107272
3.3K	0107332
3.9K	0107392
4.7K	0107472
5.6K	0107562
6.8K	0107682
8.2K	0107822
10.0K	0107103
12.0K	0107123
15.0K	0107153
18.0K	0107183
22.0K	0107223
27.0K	0107273
33.0K	0107333
39.0K	0107393
47.0K	0107473
56.0K	0107563
68.0K	0107683
82.0K	0107823
100.0K	0107104
120.0K	0107124
150.0K	0107154
180.0K	0107184
220.0K	2107224
270.0K	0107274
330.0K	0107334
390.0K	0107394
470.0K	0107474
560.0K	0107564
680.0K	0107684
820.0K	0107824
1.0M	0107105

Carbon resistor (Miniature type)
¼W Tolerance ±5%



Value (Ω)	Stock No.
4.7	0240479
5.6	0240569
6.8	0240689
8.2	0240829
10.0	0240100
12.0	0240120
15.0	0240150
18.0	0240180
22.0	0240220
27.0	0240270
33.0	0240330
39.0	0240390
47.0	0240470
56.0	0240560
68.0	0240680
82.0	0240820
100.0	0240101
120.0	0240121
150.0	0240151
180.0	0240181
220.0	0240221
270.0	0240271
330.0	0240331
390.0	0240391
470.0	0240471
560.0	0240561
680.0	0240681
820.0	0240821
1.0K	0240102
1.2K	0240122
1.5K	0240152
1.8K	0240182
2.2K	0240222
2.7K	0240272
3.3K	0240332
3.9K	0240392
4.7K	0240472
5.6K	0240562
6.8K	0240682
8.2K	0240822
10.0K	0240103
12.0K	0240123
15.0K	0240153
18.0K	0240183
22.0K	0240223
27.0K	0240273
33.0K	0240333
39.0K	0240393
47.0K	0240473
56.0K	0240563
68.0K	0240683
82.0K	0240823
100.0K	0240104
120.0K	0240124
150.0K	0240154
180.0K	0240184
220.0K	0240224
270.0K	0240274
330.0K	0240334
390.0K	0240394
470.0K	0240474
560.0K	0240564
680.0K	0240684
820.0K	0240824
1.0M	0240105

Solid resistor
¼W Tolerance ±5%



※Use resistor with tolerance ±5% in lieu of one with ±10%

Value (Ω)	Stock No.
2.2	0113229
2.7	0113279
3.3	0113339
3.9	0113399
4.7	0113479
5.6	0113569
6.8	0113689
8.2	0113829
10.0	0113100
12.0	0113120
15.0	0113150
18.0	0113180
22.0	0113220
27.0	0113270
33.0	0113330
39.0	0113390
47.0	0113470
56.0	0113560
68.0	0113680
82.0	0113820
100.0	0113101
120.0	0113121
150.0	0113151
180.0	0113181
220.0	0113221
270.0	0113271
330.0	0113331
390.0	0113391
470.0	0113471
560.0	0113561
680.0	0113681
820.0	0113821
1.0K	0113102
1.2K	0113122
1.5K	0113152
1.8K	0113182
2.2K	0113222
2.7K	0113272
3.3K	0113332
3.9K	0113392
4.7K	0113472
5.6K	0113562
6.8K	0113682
8.2K	0113822
10.0K	0113103
12.0K	0113123
15.0K	0113153
18.0K	0113183
22.0K	0113223
27.0K	0113273
33.0K	0113333
39.0K	0113393
47.0K	0113473
56.0K	0113563
68.0K	0113683
82.0K	0113823
100.0K	0113104
120.0K	0113124
150.0K	0113154
180.0K	0113184
220.0K	0113224
270.0K	0113274
330.0K	0113334
390.0K	0113394
470.0K	0113474
560.0K	0113564
680.0K	0113684
820.0K	0113824
1.0M	0113105
1.2M	0113125
1.5M	0113155
1.8M	0113185
2.2M	0113225
2.7M	0113275
3.3M	0113335
3.9M	0113395
4.7M	0113475
5.6M	0113565

◇CAPACITORS

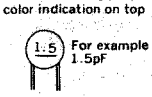
TOLERANCE (%)

G	J	K	L	M
±2	±5	±10	±15	±20

Ceramic capacitor

1) 50V Standard type

※No color indication on top

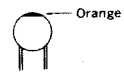


Value (pF)	Stock No.	Indication
1(±0.5pF)	0657109	1
1.5	0657159	1.5
2	0657209	2
3	0657309	3
4	0657409	4
5	0657509	5
6	0657609	6
7	0657709	7
8	0657809	8
9	0657909	9
10	0657100	10
12(±10%)	0657120	12
15	0657150	15
18	0657108	18
22	0657220	22
27	0657270	27
33	0657330	33
39	0657390	39
47	0657470	47 pF
56	0657560	56 pF
68	0657680	68 pF
82	0657820	82 pF
100	0657101	100 pF
120	0657121	120 pF
150	0657151	150 pF
180	0657181	180 pF
220	0657221	220 pF
270	0657271	270 pF
330	0657331	330 pF
390	0657391	390 pF
470	0657471	470 pF
1000(+80%, −20%)	0657102	0.001μF
2200	0657222	0.0022μF
4700	0657472	0.0047μF
10000	0657103	0.01μF
22000	0657223	0.022μF
47000	0657473	0.047μF

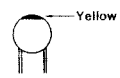
2) 50V Temperature Compensation type

Value (pF)	Stock No.	Indication
1.0	0669014	1
1.5	0669021	1.5
2.2	0669003	2.2
2.7	0669203	2.7
3.9	0669002	3.9
4.7	0669020	4.7
6.8	0669018	6.8
8.2	0669005	8.2
10.0	0661100	10
12.0	0661120	12
15.0	0661150	15
18.0	0661180	18
22.0	0661220	22
25.0	0661250	25 J
27.0	0661270	27 J
33.0	0661330	33 J
39.0	0661390	39/CM J
47.0	0661470	47/CM J
56.0	0661560	56/CM J
68.0	0661680	68/CM J
82.0	0661820	82/CM J
100.0	0661101	101/CM J

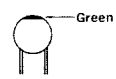
Value (pF)	Stock No.	Indication
6.8	0669006	6.8
16.0	0662160	16
17.0	0662170	17
19.0	0669279	19
20.0	0662200	20
27.0	0669282	27 J



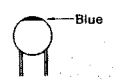
Value (pF)	Stock No.	Indication
16.0	0663160	16
17.0	0663170	17
20.0	0669305	20
22.0	0669306	22



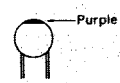
Value (pF)	Stock No.	Indication
10.0	0664100	10
12.0	0669322	12



Value (pF)	Stock No.	Indication
6.8	0669343	6.8
12.0	0666347	12
17.0	0669352	17
18.0	0669019	18



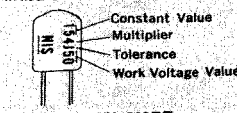
Value (pF)	Stock No.	Indication
6.8	0669368	6.8
10.0	0669370	10
12.0	0669382	12
15.0	0669383	15



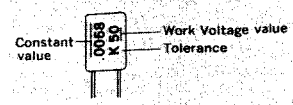
Value (pF)	Stock No.	Indication
6.8	0669393	6.8
8.2	0669015	8
10.0	0669016	10
33.0	0669408	33
39.0	0669407	39

Mylar capacitor

※Use capacitor with letter J(±5%) in lieu of one with K(±10%)



➡ 15×10⁴=150,000PF =0.15μF(±5%, 50V)



➡ 0.0068μF(±10%, 50V)

Value (μF)	Stock No.	W.V.
0.001	0600106	50V
0.01	0600107	
0.1	0600108	
0.001	0600116	
0.011	0600117	
0.11	0600118	
0.0012	0600126	
0.012	0600127	
0.12	0600128	
0.0013	0600136	
0.013	0600137	
0.13	0600138	
0.0015	0600156	
0.015	0600157	
0.15	0600158	
0.0016	0600166	
0.016	0600167	
0.16	0600168	
0.0018	0600186	
0.018	0600187	
0.18	0600188	
0.002	0600206	
0.02	0600207	
0.2	0600208	
0.002	0600226	
0.022	0600227	
0.22	0600228	
0.0024	0600246	
0.024	0600247	
0.0027	0600276	
0.027	0600277	
0.27	0600278	
0.003	0600306	
0.03	0600307	
0.0033	0600336	
0.033	0600337	
0.33	0600338	
0.0036	0600366	
0.036	0600367	
0.0039	0600396	
0.039	0600397	
0.39	0600398	
0.004	0600406	
0.04	0600407	
0.0043	0600436	
0.043	0600437	
0.0047	0600476	
0.047	0600477	

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▶CAPACITORS

Value (μF)	Stock No.	W.V.
0.47	0600478	50 V
0.0005	0600505	
0.005	0600506	
0.05	0600507	
0.0051	0600516	
0.051	0600517	
0.0056	0600566	
0.056	0600567	
0.006	0600606	
0.06	0600607	
0.0062	0600626	
0.062	0600627	
0.0068	0600686	
0.068	0600687	
0.0075	0600756	
0.075	0600757	
0.008	0600806	
0.08	0600807	
0.00082	0600825	
0.0082	0600826	
0.082	0600827	
0.00091	0600915	
0.0091	0600916	
0.091	0600917	

Electrolytic capacitor
(Vertical type)

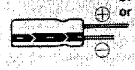
1) Non-polar type

*There are indication of BP. BI-POLAR or NP.
*There are three kinds of color, Gray, Blue or Black around it.

Value (μF)	Stock No.	W.V.
10.0	0530100	6.3 V
100.0	0530101	
1000.0	0530102	
22.0	0530220	
220.0	0530221	
33.0	0530330	
330.0	0530331	
47.0	0530470	
470.0	0530471	
100.0	0531101	10 V
22.0	0531220	
220.0	0531221	
33.0	0531330	
330.0	0531331	
3.3	0531339	
47.0	0531470	
470.0	0531471	
68.0	0531680	
10.0	0532100	16 V
100.0	0532101	
22.0	0532220	
220.0	0532221	
33.0	0532330	
330.0	0532331	
3.3	0532339	
47.0	0532470	
470.0	0532471	
4.7	0532479	
68.0	0532680	

Value (μF)	Stock No.	W.V.
10.0	0533100	25 V
100.0	0533101	
22.0	0533220	
220.0	0533221	
2.2	0533229	
33.0	0533330	
3.3	0533339	
47.0	0533470	
4.7	0533479	
68.0	0533680	
10.0	0535100	50 V
100.0	0535101	
1.0	0535109	
22.0	0535220	
2.2	0535229	
33.0	0535330	
3.3	0535339	
47.0	0535470	
0.47	0535478	
4.7	0535479	
68.0	0535680	
4.7	0539001	80 V

2) Polar type *There are three Kinds of colors, Blue, Gray or Black around it.



Value (μF)	Stock No.	W.V.
100.0	0510101	6.3 V
1000.0	0510102	
220.0	0510221	
330.0	0510331	
47.0	0510470	
470.0	0510471	
100.0	0511101	10 V
1000.0	0511102	
220.0	0511221	
33.0	0511330	
330.0	0511331	
47.0	0511470	
10.0	0512100	16 V
100.0	0512101	
1000.0	0512102	
220.0	0512221	
33.0	0512330	
330.0	0512331	
47.0	0512470	
470.0	0512471	
10.0	0513100	25 V
100.0	0513101	
1000.0	0513102	
220.0	0513221	
33.0	0513330	
330.0	0513331	
47.0	0513470	
470.0	0513471	

Value (μF)	Stock No.	W.V.
4.7	0513479	25 V
100.0	0514101	35 V
1000.0	0514102	
220.0	0514221	
2200.0	0514222	
330.0	0514331	
3.3	0514339	
470.0	0514471	
10.0	0515100	50 V
100.0	0515101	
1000.0	0515102	
1.0	0515109	
220.0	0515221	
2.2	0515229	
33.0	0515330	
330.0	0515331	
3.3	0515339	
47.0	0515470	
470.0	0515471	
4.7	0515479	
100.0	0516101	63 V
22.0	0516220	
220.0	0516221	
330.0	0516331	
3.3	0516339	
47.0	0516470	
4.7	0516479	
100.0	0519301	75 V
220.0	0519302	
22.0	0529401	100 V
100.0	0519402	
2.2	0519403	
10.0	0519404	
2200.0	0519901	18 V
47.0	0519902	80 V
100.0	0519903	
220.0	0519904	

3) Polar type (Low noise)

Value (μF)	Stock No.	W.V.
10.0	0519001	25 V
3.3	0519002	
1.0	0519101	50 V
3.3	0519102	
0.47	0519103	
1.5	0519104	
2.2	0519105	
4.7	0519106	
6.8	0519107	
10.0	0519108	
0.22	0519109	
0.33	0519110	

Value (μF)	Stock No.	W.V.
0.68	0519111	50 V